

Spring-return actuator for fire and smoke dampers 180° in ventilation and air-conditioning systems

- Nominal torque 11 Nm / 8.5 Nm
- Nominal voltage AC 230 V
- Control open-close
- Damper rotation form fit 10 mm


**Technical data**

<b>Electrical data</b>	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198 V ... 264 V
	Power consumption in operation	9.5 W
	Power consumption at rest	3.5 W
	Power consumption for wire sizing	11 VA
	Power consumption for wire sizing note	I <sub>max</sub> 0.5 A @ 5 ms
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	Contact gold-plated silver: 1 mA ... 3 (0.5) A, DC 5 V ... AC 250 V (II Totally insulated)
	Switching points auxiliary switch	25° / 145° (5° / 80° relating to damper angle of rotation)
	Connection supply	Cable 1 m, 2 x 0.75 mm <sup>2</sup> (halogen-free)
	Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm <sup>2</sup> (halogen-free)
<b>Functional data</b>	Torque motor	Min. 11 Nm
	Torque spring-return	Min. 8.5 Nm
	Direction of rotation motor	Can be selected by mounting L / R
	Angle of rotation	Max. 180°
	Running time motor	<120 s / 180°
	Running time spring-return	~20 s (t <sub>amb</sub> = 20 °C)
	Sound power level motor max.	45 dB (A)
	Sound power level spring-return max.	63 dB (A)
	Damper rotation	Form fit 10 mm
	Position indication	Mechanically, with pointer
Service life	Min. 50,000 safety positions	
<b>Safety</b>	Protection class IEC/EN	II Totally insulated
	Degree of protection IEC/EN	IP54 in all mounting positions
	EMC	CE according to 2004/108/EC
	Low-voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	Certified according to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.AA.B
	Rated impulse voltage supply / control	4 kV
	Control pollution degree	3
	Ambient temperature normal duty	-30 °C ... 50 °C
	Ambient temperature safety duty	The safety position will be attained up to max. 75 °C when triggered by a thermal fuse
	Non-operating temperature	-40 °C ... 80 °C
	Ambient humidity	95% r.h., non-condensing
Maintenance	Maintenance-free	
<b>Weight</b>	Weight approx.	3.1 kg

## Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution: Power supply voltage!
- The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

## Product features

<b>Mode of operation</b>	The actuator moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted.
<b>Signalling</b>	Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. The position of the damper blade can be read off on a mechanical position indicator.
<b>Manual operation</b>	Without power supply, the damper can be operated manually and fixed in any required position. It can be unlocked manually or automatically by applying the supply voltage.

## Electrical installation

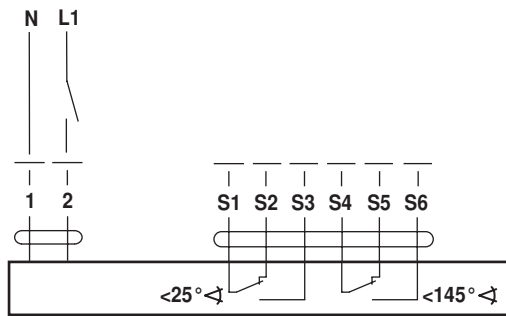


### Notes

- Caution: Power supply voltage!
- Parallel connection of other actuators possible. Note the performance data.

## Wiring diagrams

### AC 230 V, open-close



### Cable colours:

1 = blue  
2 = brown

S1 = white  
S2 = white  
S3 = white  
S4 = white  
S5 = white  
S6 = white

Dimensions [mm]

Dimensional drawings

